

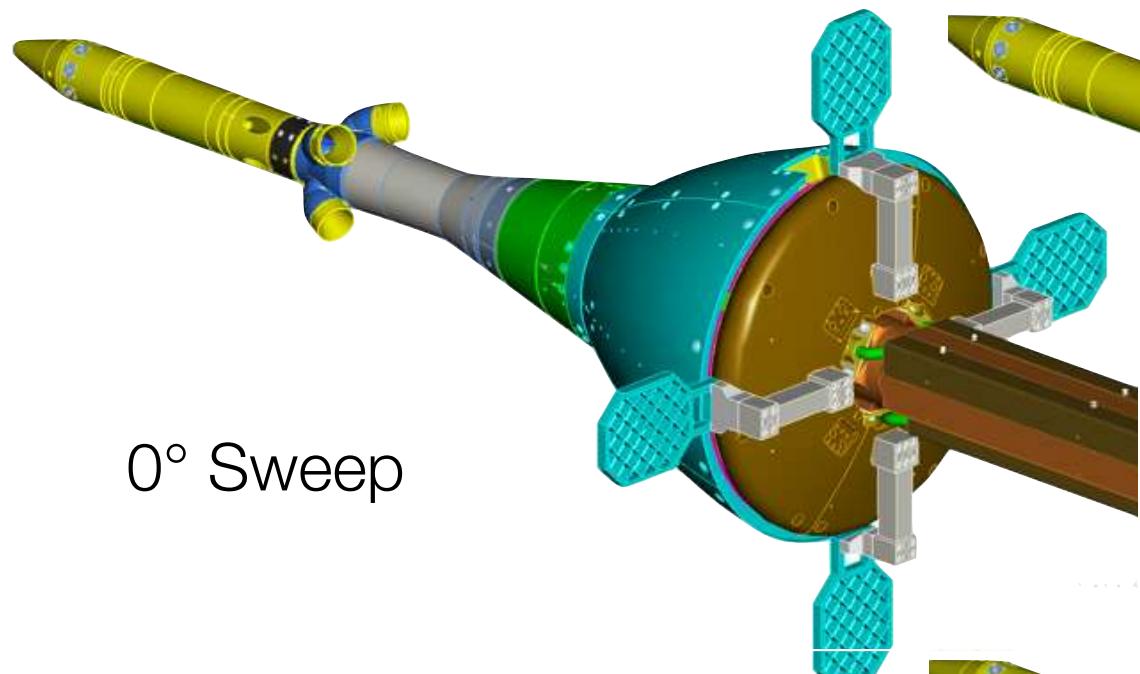
Simulation of Grid-Fin Control Surfaces

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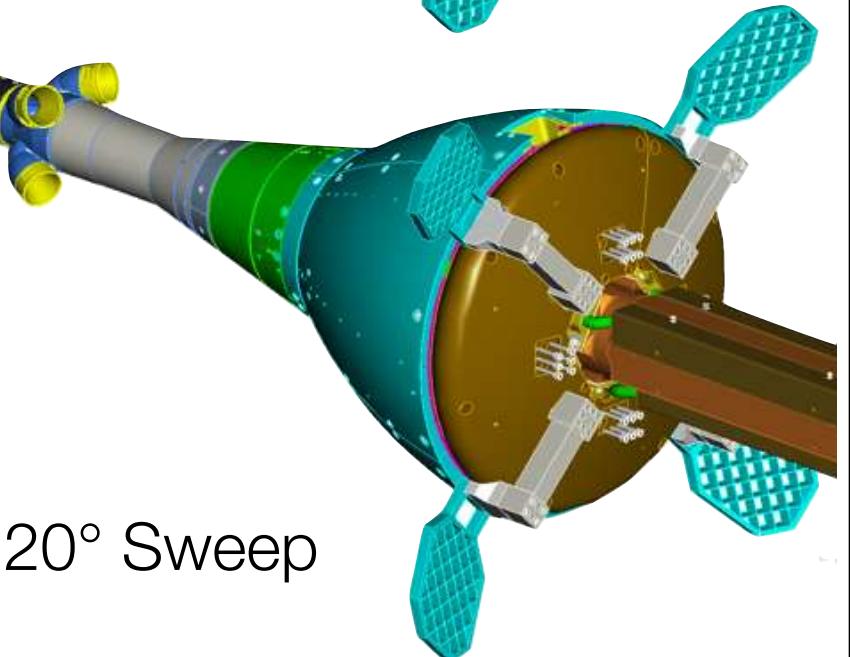
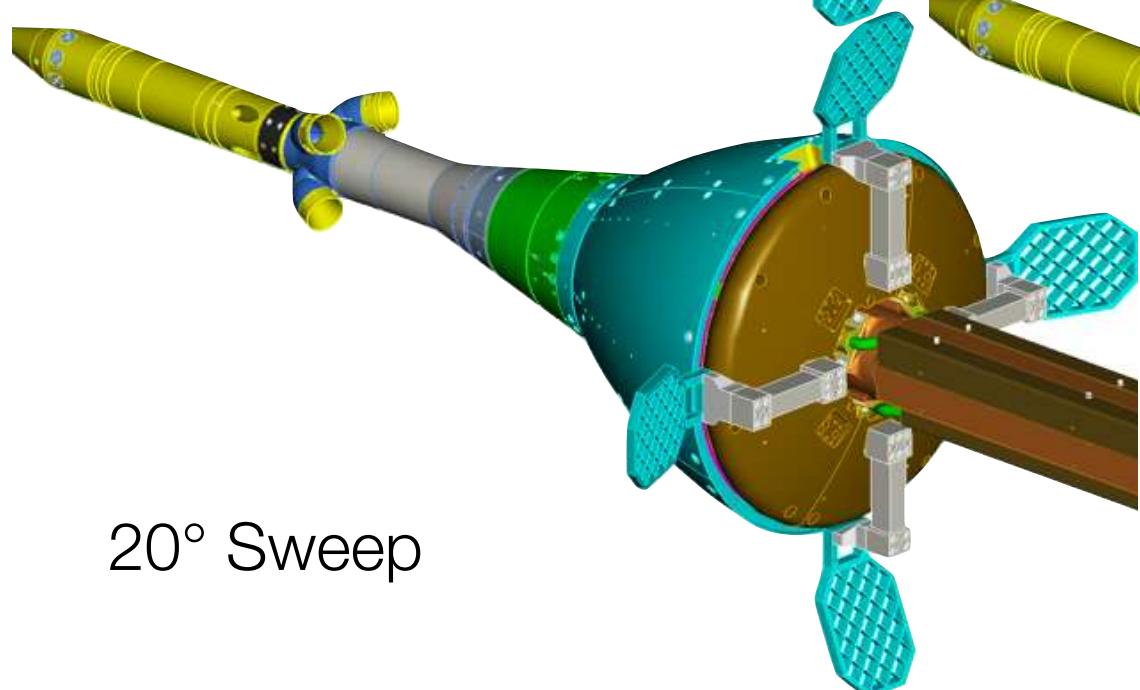
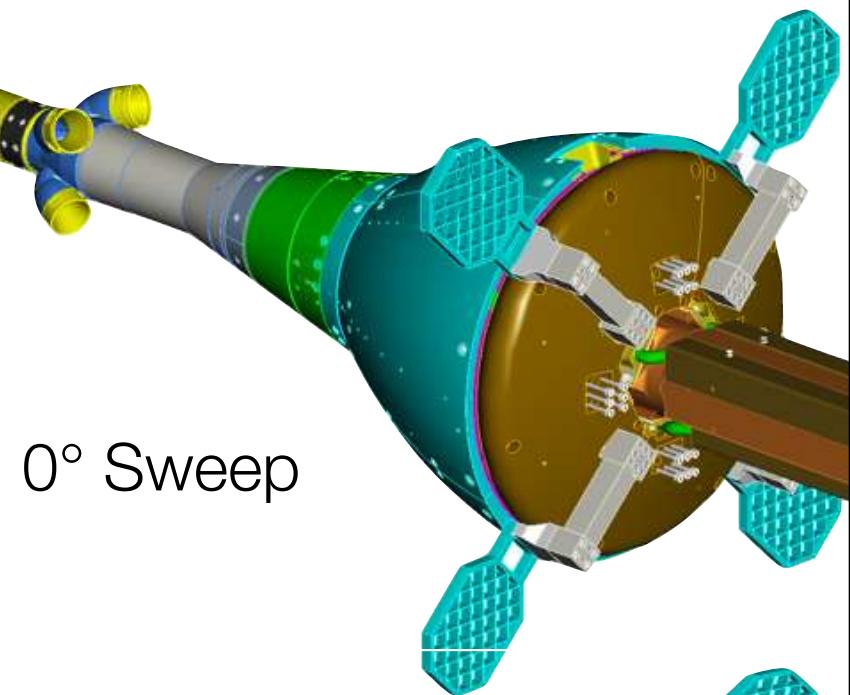
M. Aftosmis
NASA Ames Research Center



(+) Configuration



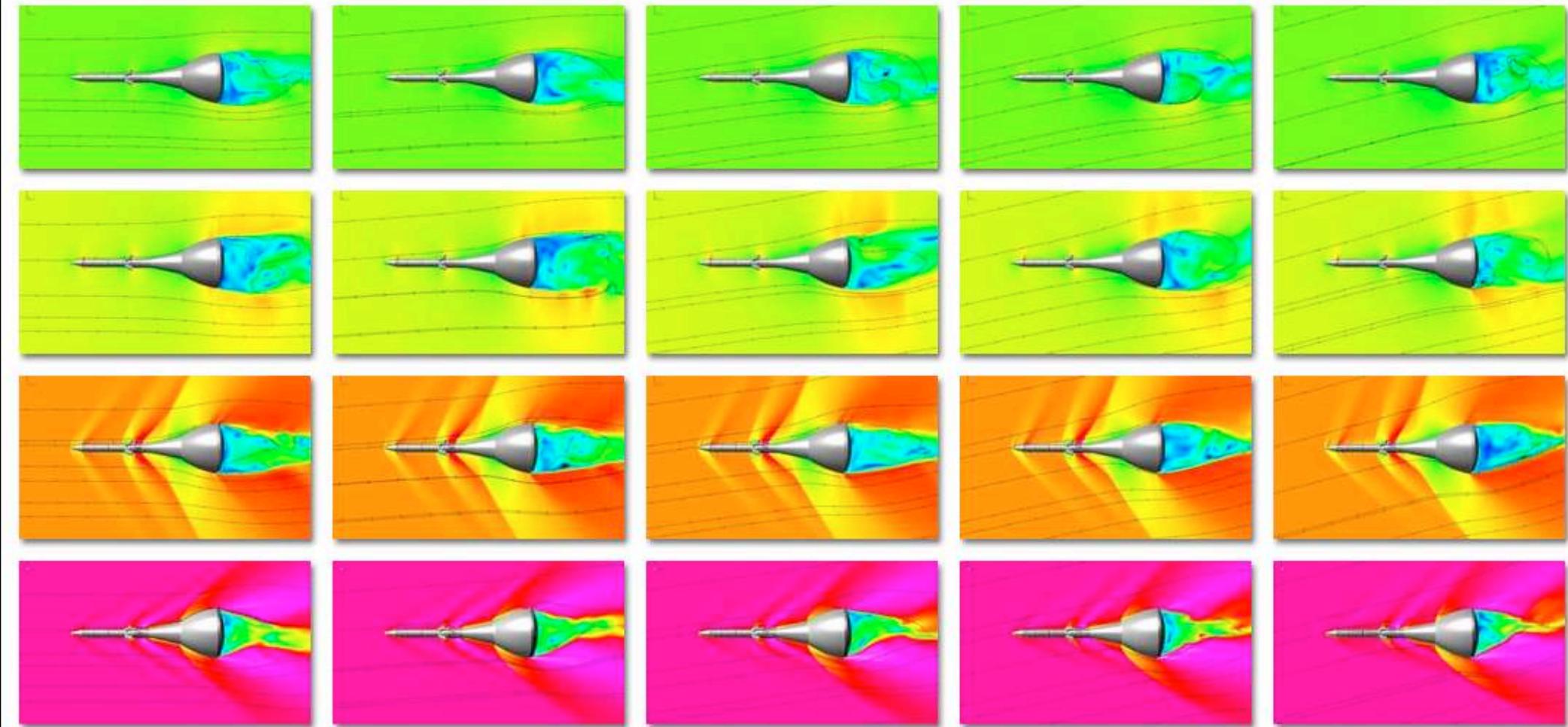
(X) Configuration



Baseline Configuration

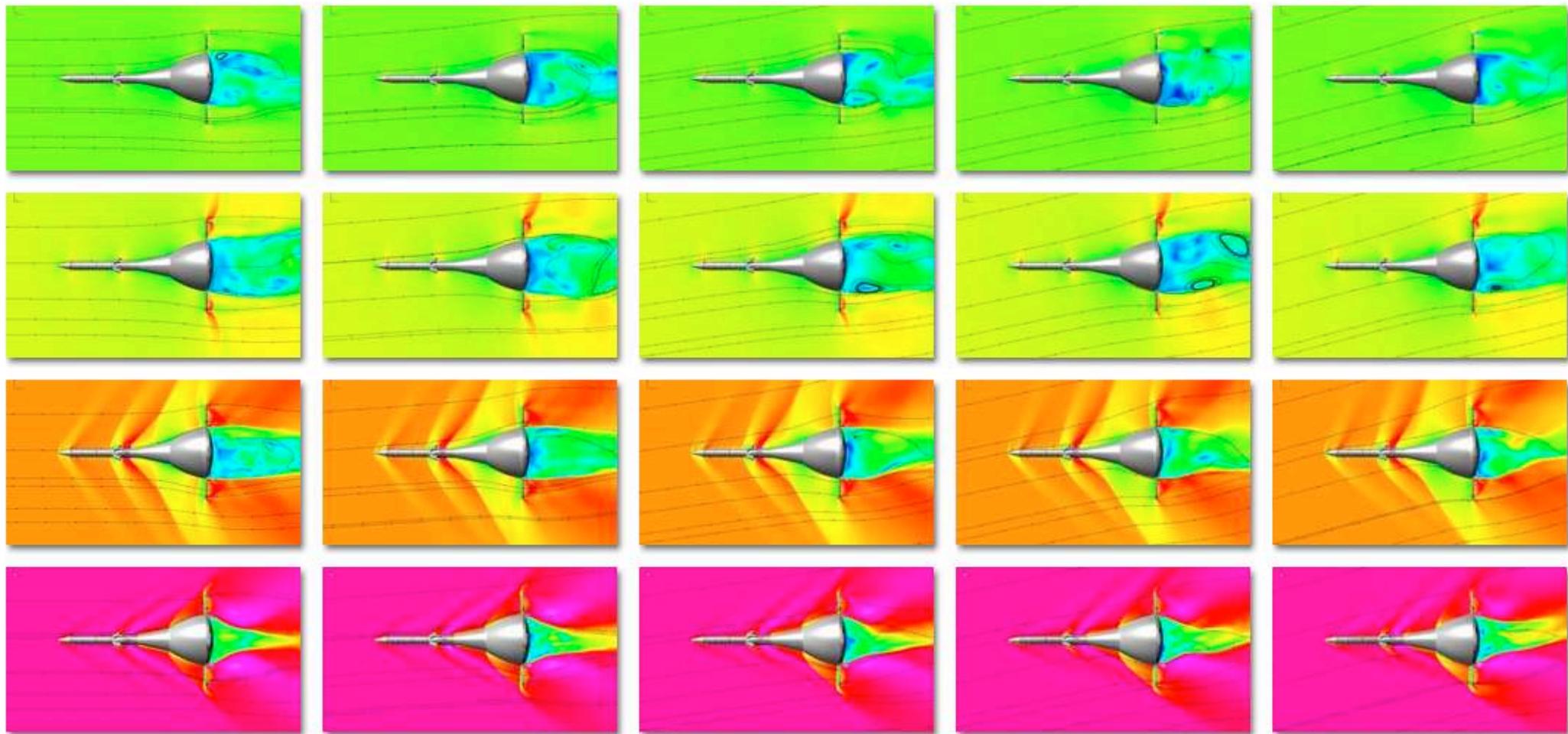
Baseline LAV

$M=[0.7, 0.9, 1.3, 2.2]$, $\alpha=[0^\circ, 4^\circ, 8^\circ, 12^\circ, 15^\circ]$



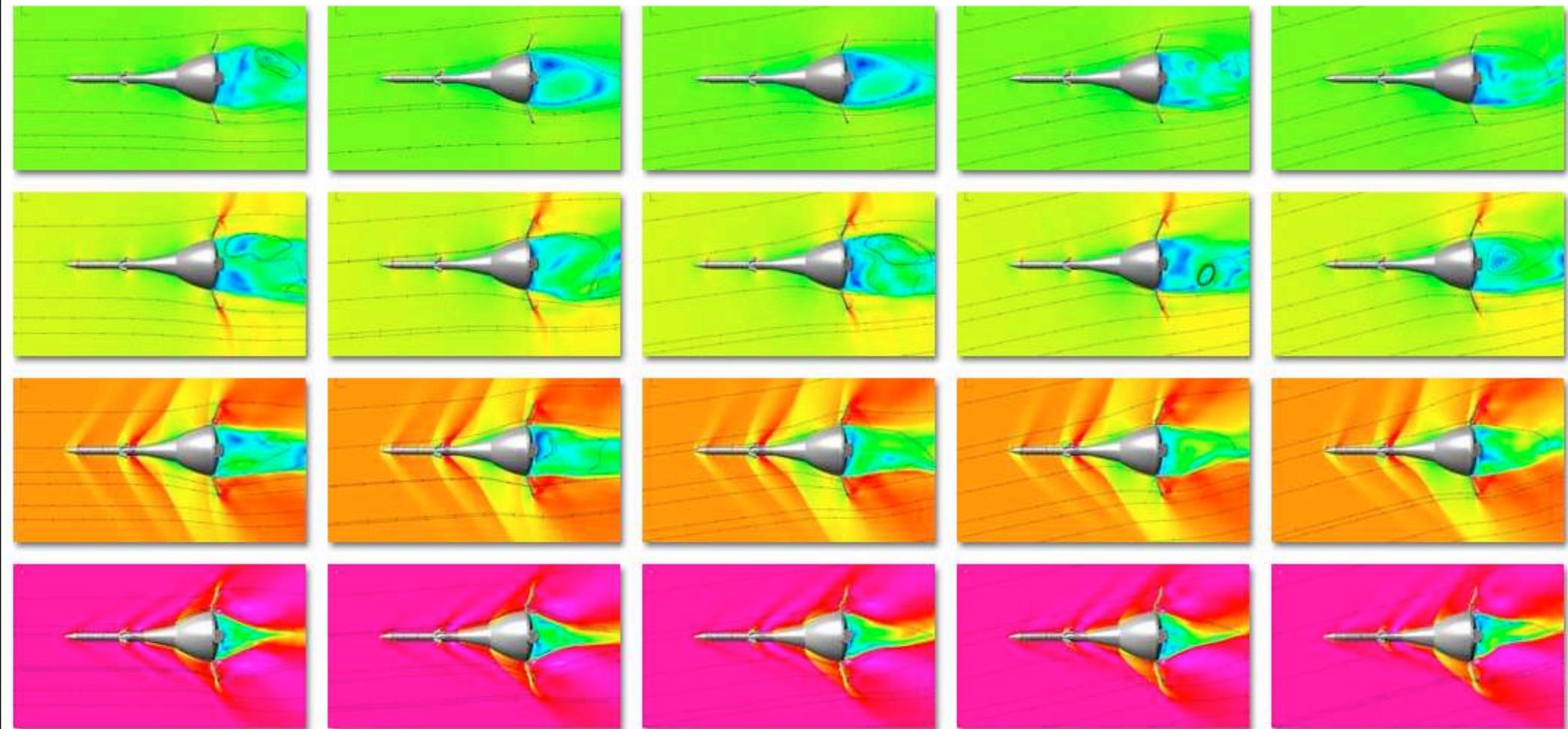
(+) Configuration, 0° Sweep

(+) Configuration, 0° Sweep
 $M=[0.7, 0.9, 1.3, 2.2]$, $\alpha=[0^\circ, 4^\circ, 8^\circ, 12^\circ, 15^\circ]$



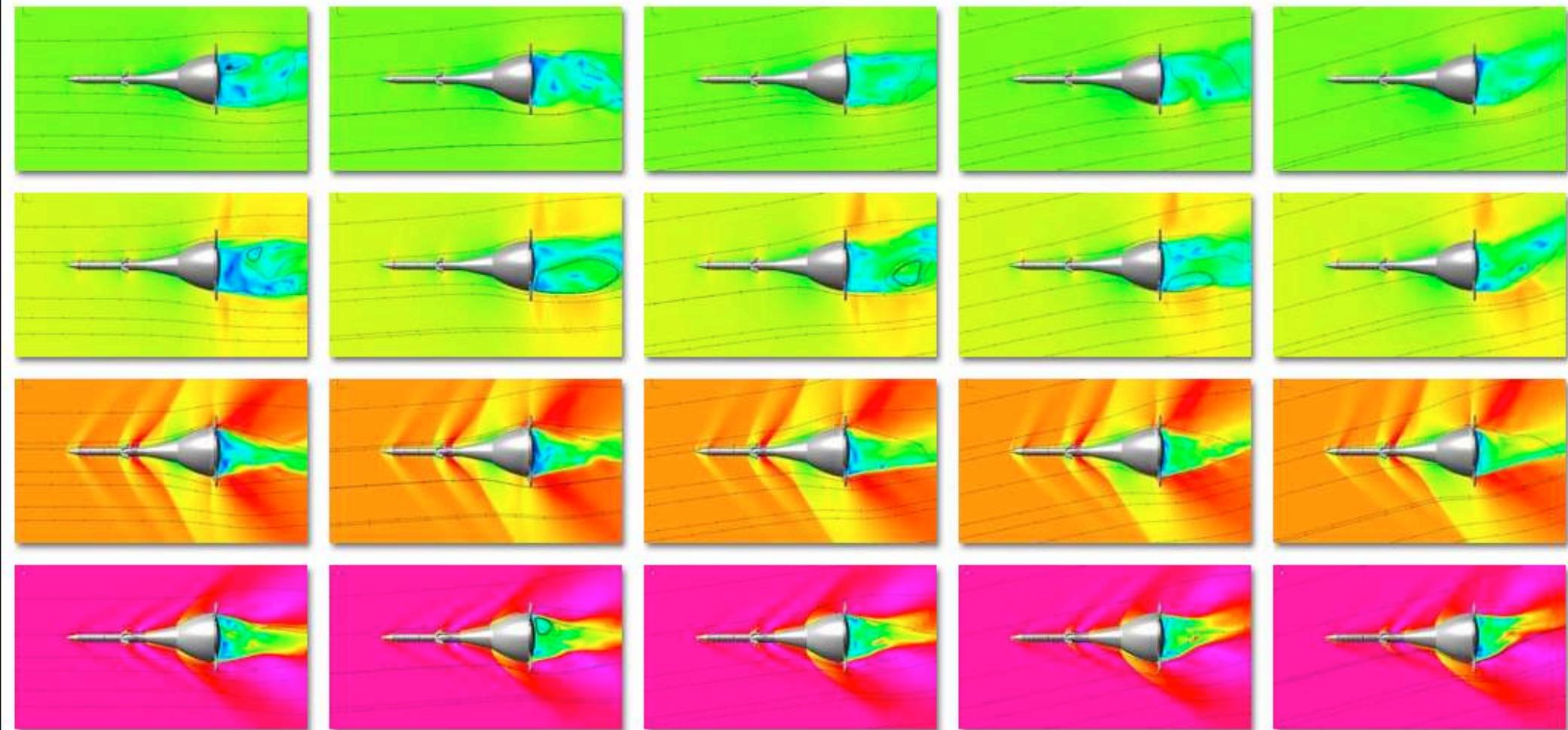
(+) Configuration, 20° Sweep

(+) Configuration, 20° Sweep
 $M=[0.7, 0.9, 1.3, 2.2], \alpha=[0^\circ, 4^\circ, 8^\circ, 12^\circ, 15^\circ]$



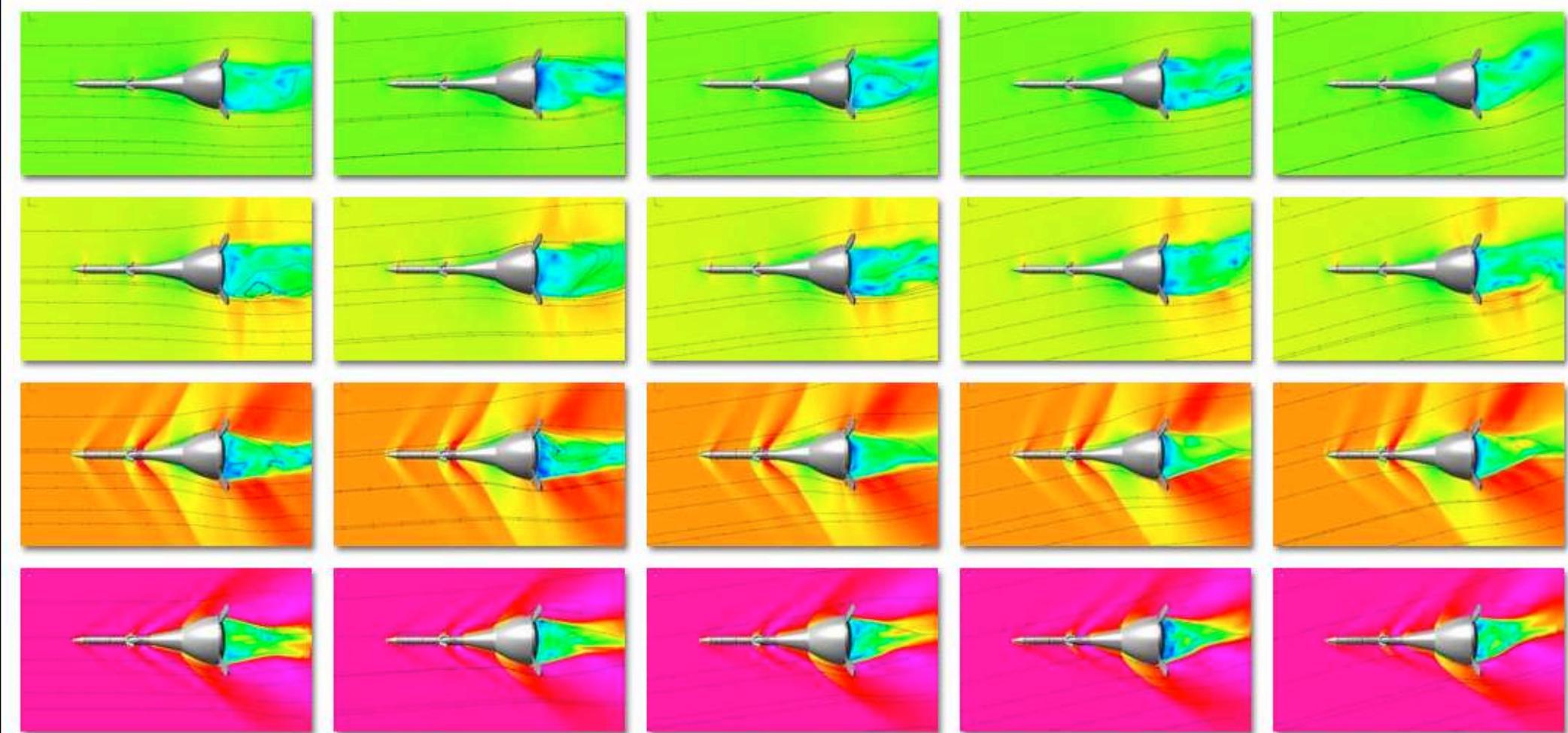
(x) Configuration, 0° Sweep

(x) Configuration, 0° Sweep
 $M=[0.7, 0.9, 1.3, 2.2]$, $\alpha=[0^\circ, 4^\circ, 8^\circ, 12^\circ, 15^\circ]$
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(x) Configuration, 20° Sweep

(x) Configuration, 20° Sweep
 $M=[0.7, 0.9, 1.3, 2.2]$, $\alpha=[0^\circ, 4^\circ, 8^\circ, 12^\circ, 15^\circ]$



Grid-Fin Only

Fin Only

$M=[0.7,0.9,1.3,2.2]$, $\alpha=[0^\circ, 4^\circ, 8^\circ, 12^\circ, 15^\circ]$

